

**PROCEDURE FOR VERIFYING TAG OPEN-CUP  
APPARATUS  
AASHTO T 79**

**A. PURPOSE**

This procedure provides instructions for checking the equipment used to perform the Flash Point Test by the Tag Open-Cup Tester.

**B. APPARATUS REQUIRED**

1. Calibrated calipers readable to 0.05 mm
2. Timer, readable to 0.1 second
3. Thermometer, calibrated and readable to 2 °C (5 °F)
4. Balance, Class G2

**C. PROCEDURE**

Follow the instructions on the work sheet to verify and check the equipment.

**D. TOLERANCE**

The equipment shall meet the tolerances specified in AASHTO T 79.

## EQUIPMENT VERIFICATION RECORD

Verified By: _____	Date: _____
Equipment: <u>Tag Open Cup Apparatus</u>	Location (Lab): _____
Identification No.: _____	Verification Frequency: _____
Previous Verification Date: _____	Next Due Date: _____
Verification Equipment Used:    Calibrated calipers, ID#: _____    Thermometer, ID #: _____	
Balance, ID #: _____	
Verification Procedure: _____	Specified Temperature: _____

1. Bath:
  - (a) Copper?.....
  - (b) Equipped with constant level overflow?.....
  - (c) Overflow located 3.2 mm (.125 in.) below ridge of glass cup?.....
2. Thermometer and Thermometer Holder:
  - (a) ASTM 9C or 9F thermometer?.....
  - (b) Holder capable of positioning thermometer as follows:
    1. Vertical and 6.4 mm (.250 in.) from inner bottom of cup? .....
    2. Midway between center and edge of cup?.....
    3. On line through center of cup and pivot of the taper? .....
3. Ignition Taper:
  - (a) Maintained in fixed horizontal plane by swivel device? .....
  1. Center of orifice 3.2 mm above upper edge of cup?.....
  - (b) Jet of taper at least 152 mm (6.0 in.) from center of swivel? .....
  1. Jet passes across center of cup? .....
  - (c) Tip of taper approximately 1.6 mm (0.0625 in.) in diameter? .....
  1. If comparison bead, 4.0 mm (0.156 in.) in diameter is mounted on taper, the 1.6 mm (0.0625 in.) diameter Jet tip extends at least 3 mm (0.125 mm) beyond the bead? .....
  - (d) Flame Size Comparator; bead on apparatus of hole in leveling device? .....
  1. Diameter, Bead of hole; no more than 4 mm (0.156 in.)? .....
4. Heater:
  - (a) One of the following:.....
    1. Small gas burner? .....
    2. Electric heater with variable transformer?.....
5. Miscellaneous:
  - (a) One of the following available:
    1. Draft-free hood or flash room? .....
    2. Draft shield?.....
  - (b) Tester shielded from strong light? .....
  - (c) Water or 1:1 water-glycol solution? .....